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**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: JP 10194388 A

L1: Entry 1 of 2

File: JPAB

Jul 28, 1998

PUB-NO: JP410194388A  
DOCUMENT-IDENTIFIER: JP 10194388 A  
TITLE: ARTICLE-HOLDING DEVICE

PUBN-DATE: July 28, 1998

## INVENTOR-INFORMATION:

NAME

COUNTRY

NAKAGAWA, KENJI

IWATA, YOSHIMI

SHIRAI, SHUSUKE

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

KAO CORP

APPL-NO: JP09323979

APPL-DATE: November 11, 1997

INT-CL (IPC): B67 C 3/24; B65 B 43/54

## ABSTRACT:

PROBLEM TO BE SOLVED: To stably hold articles in various shapes with a device and to make the structure simple for the device.

SOLUTION: An article-holding device 10 is such a one wherein an article- holding member 14 is constructed of a shape memory material 18, and the shape memory material 18 can be deformed at a temperature higher than a specified temperature into an article-holding shape that is suitable to an article model 1A while being formed at a temperature range of use that is lower than the specified temperature into a fixed shape of article holding, and thereby a range for article-holding can be formed.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 2. Document ID: JP 10194388 A CN 1250423 A WO 9952811 A1 JP 2974245 B2

L1: Entry 2 of 2

File: DWPI

Jul 28, 1998

DERWENT-ACC-NO: 1998-462253  
DERWENT-WEEK: 200035  
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TITLE: Holder for container during filling, capping - has shape retaining members which transform their shape according to article at constant temperature

INVENTOR: IWATA, Y; NAKAGAWA, K ; SHIRAI, H

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
KAO CORP	KAOS

PRIORITY-DATA: 1996JP-0316917 (November 14, 1996), 1998WO-JP01721 (April 15, 1998), 1998CN-0801213 (April 15, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10194388 A	July 28, 1998		017	B67C003/24
CN 1250423 A	April 12, 2000		000	B67C003/24
WO 9952811 A1	October 21, 1999	J	000	B67C003/24
JP 2974245 B2	November 10, 1999		017	B67C003/24

DESIGNATED-STATES: CN DE ID US

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 10194388A	November 11, 1997	1997JP-0323979	
CN 1250423A	April 15, 1998	1998CN-0801213	
CN 1250423A	April 15, 1998	1998WO-JP01721	
WO 9952811A1	April 15, 1998	1998WO-JP01721	
JP 2974245B2	November 11, 1997	1997JP-0323979	
JP 2974245B2		JP 10194388	Previous Publ.

INT-CL (IPC): B65 B 43/54; B65 G 47/74; B67 C 3/24

ABSTRACTED-PUB-NO: JP 10194388A

## BASIC-ABSTRACT:

The holder (10) consists of shape retaining members (18) fixed inside a ring shaped holding member (14). The shape retaining member hold an article (1A) in an article holding area (19). The shape retaining members transform their shape according to the article at constant temperature.

ADVANTAGE - Enables holding articles of various shapes. Widens usage range from low temperature articles to high temperature articles.

CHOSEN-DRAWING: Dwg.5/18

TITLE-TERMS: HOLD CONTAINER FILL CAP SHAPE RETAIN MEMBER TRANSFORM SHAPE ACCORD ARTICLE CONSTANT TEMPERATURE

DERWENT-CLASS: Q31 Q35 Q39

## SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-361121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: JP 04253690 A

L6: Entry 1 of 1

File: JPAB

Sep 9, 1992

PUB-NO: JP404253690A

DOCUMENT-IDENTIFIER: JP 04253690 A

TITLE: RECEPTACLE FOR CARRYING CONTAINER OR THE LIKE

PUBN-DATE: September 9, 1992

## INVENTOR-INFORMATION:

NAME

COUNTRY

KOGA, AKIHIKO

HAYASHI, SHUNICHI

TATSUKI, TAKASHI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI HEAVY IND LTD

APPL-NO: JP03012216

APPL-DATE: February 1, 1991

INT-CL (IPC): B67C 3/24; B65B 43/54; B65D 25/20

## ABSTRACT:

PURPOSE: To impart adaptability for a wide use to an article carrying receptacle by providing the supporting members for containers made of shape memory resin changeable in shape due to a change in their temperature in a recess part of a receptacle body having the standardized exterior contour.

CONSTITUTION: An inner seat 102 of an article carrying receptacle consists of supporting members 103 and 104 for the container made of shape memory resin and spacers 105 for securing the supporting members to the inner surface of a receptacle body 101 and the supporting members 103 and 104 are provided in the center with the holes 107 cut somewhat smaller than the horizontal cross sectional contour 106 of a container 15. The temperature of the article carrying receptacle 100 containing the supporting members 103 and 104 is raised to at least 60°C in its entirety to soften the supporting members 103 and 104. The container 15 or a pattern resembling the container 15 in its shape is inserted from above the receptacle 100 into the holes 107 of the supporting members 103 and 104, so that the bottom part of the container 15 makes contact with the bottom part of the receptacle body 101, after which the article carrying receptacle 100 is entirely allowed to cool to normal temperature with pawls 108 left as deformed.

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Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1